

ABSTRACT OF THE DISCLOSURE

A metal halogen electrodeless illumination lamp including a microwave generator coupled via a coupling means with a microwave cavity which contains a discharge bulb, and a microwave screen its function being performed by some part of the microwave cavity walls, which is transparent to optical radiation. The discharge bulb contains a fill mixture of metal halogens, such as Bi halide, a mixture of Sn and Al and a mixture of their compounds, which emits visible optical radiation featuring a molecular spectrum.